

FIG. 1

09740534.120000

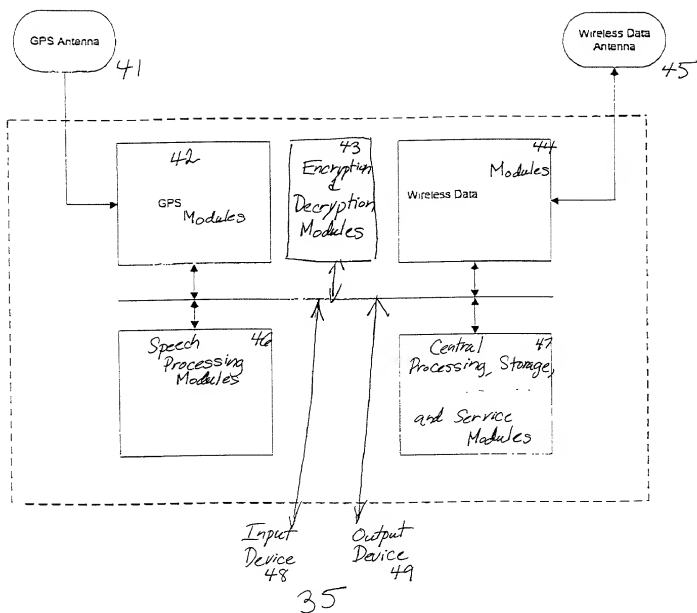


FIG. 2

46

Position has changed enough to cause central site to be updated (transmission threshold)

45

Cellular Antenna

70 Cellular Data Transceiver

71 Data Transceiver

72 Encryption/Decryption Processor

73 Transmit Message Generator

74 Received Message Handler

76 Central Processing and Data Storage Unit

41

GPS Antenna

77 GPS Receiver

78 Position Info. Parser

75 Position Difference Calculator

79 Map Data Parser

80 Display Generation Unit

Display Unit

84 Speech Command Processor

85 Speech Recognition Unit

86 Microphone

87 Speech Recording Unit

82 Speech Synthesis Unit

83 Speaker

End-User Navigation Device

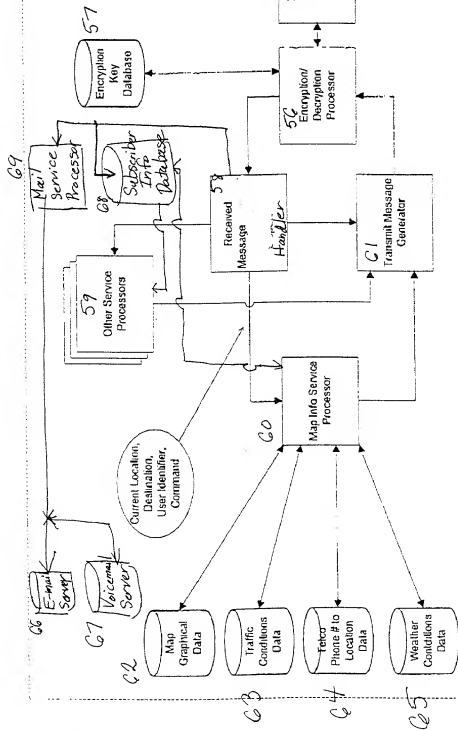


FIG. 4

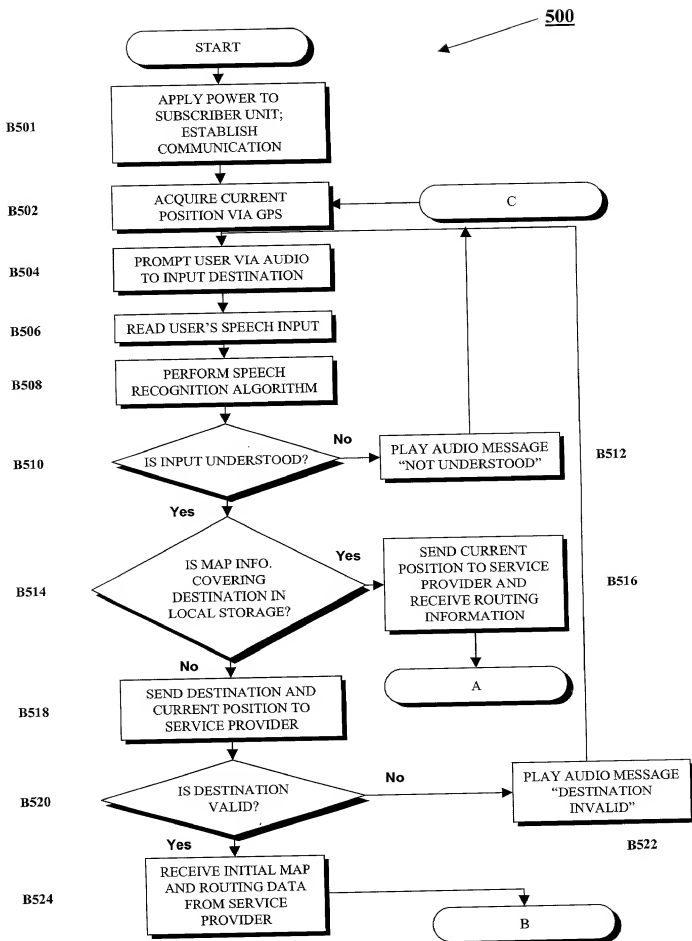


FIG. 5

